

Safety Data Sheet

Tribasic Copper Chloride

Revised: 05/14/2020
SDS Expiry Date: 04/14/2023

1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Chemical name Tribasic Copper Chloride
CAS # 1332-40-7
Molecular Formula $\text{Cu}_2(\text{OH})_3\text{Cl}$

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Consult with manufacturer
Use Advised Against Consult with manufacturer

1.3. Supplier Information of the Safety Data Sheet

| | | | |
|----------------|------------------------------------|--------------------|-------------------|
| Company | SAM Nutrition | Telephone # | +1 (952) 974-9174 |
| | 7500 Flying Cloud Drive, Suite 765 | Fax # | +1 (952) 974-8183 |
| | Eden Prairie, MN 55344-3945 | | |
| | United States of America | Email | info@samhprp.com |

1.4. Emergency Contact Information

Emergency # +1 (952) 974-9174

2) HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS Hazard Class

| | |
|-------------------------------------------------------------------|------------|
| Acute Toxicity – Oral | Category 4 |
| Acute Toxicity – Inhalation | Category 4 |
| Aquatic Environment – Short-Term (Acute) Hazard | Category 1 |
| Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard | Category 1 |

2.2. Label Elements



Warning

2.3. Unclassified Hazards/Hazards Not Otherwise Classified

Hazard Statements

| | |
|------|------------------------------------------------------|
| H302 | Harmful if swallowed |
| H332 | Harmful if inhaled |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary Statements

| | |
|-------------|-------------------------------------------------------------------------------------------------|
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P264 | Wash thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product |
| P271 | Use only outdoors or in well ventilated area |
| P273 | Avoid release to the environment |
| Response | |
| P312 | Call a poison center/doctor, if needed |
| P330 | Rinse mouth |
| P391 | Collect spillage |
| P301 + P312 | If swallowed, call a poison center/doctor, if feeling unwell |
| P301 + P340 | If inhaled, remove person to fresh air and keep comfortable |
| Storage | Not Applicable |
| Disposal | Dispose contents/container in accordance with local/regional/national/international regulations |
| P501 | |

3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

| | | | |
|--------------------------|--------------------------------------|--------------------------|-------|
| Molecular formula | Cu ₂ (OH) ₃ Cl | Weight Percentage | ≥ 98% |
| CAS-No. | 1332-40-7 | | |

4) FIRST-AID MEASURES

4.1. Description of First-Aid Measures

| | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Advice | Immediately get medical attention. Show this safety data sheet (SDS) to the doctor in attendance. |
| If inhaled | Move victim into fresh air. If breathing is difficult, give oxygen. Do not mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. |
| In case of skin contact | Take off contaminated clothing and shoes immediately. Wash off with plenty of water for 15 minutes and consult a physician if feel uncomfortable. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult with a physician if feel uncomfortable. |
| If swallowed | Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control immediately. |
| Protecting of first aiders | Ensure that medical personnel are aware of substance involved. Take precautions to protect themselves and prevent spread of contamination. |

4.2. Important Systems and Effects, Both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically

Symptoms may be delayed

5) FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter or spread fire.

5.2. Special Hazards Arising from the Substance or Mixture

Containers may explode when heated.

Fire exposed containers may vent contents through pressure relief valves.

May expansion or decompose explosively when heated or involved in fire.

5.3. Advice for Firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

5.4. Further information

None.

6) ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment. Avoid breathing vapors, mist, gas, or dust.

6.2. Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

6.3. Methods and Material for Containment and Cleaning Up

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to Other Sections

None.

7) HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handling is performed in a well-ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/hot surfaces.

Take precautionary measures against static discharges.

7.2. Conditions for Safe Storage

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/ hot surfaces.

Store away from incompatible materials and foodstuff containers.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 160.1 ~ GBZ/T 160.81-2004 Determination of toxic substances in workplace air

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.

8.2. Exposure Controls

Eye/Face Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand Protection Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Skin and Body Protection Wear fire/flame resistant/retardant clothing and antistatic boots.

Respiratory Protection If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

9) PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance: Green Powder **Odor:** No information available

Odor Threshold: No information available **pH:** No information available

| | | | |
|-----------------------------------------------|--------------------------|------------------------------------------------------|--------------------------|
| Melting point/Freezing point (°C): | 140 | Initial Boiling Point and Boiling range (°C): | No information available |
| Flash point (°C): | Not applicable | Relative Vapor Density (Air = 1): | Not applicable |
| Relative Density (Water = 1): | No information available | Solubility: | Insoluble in water |
| n-Octanol/water partition coefficient: | No information available | Auto-Ignition Temperature (°C): | No information available |
| Decomposition Temperature (°C): | No information available | Kinematic Viscosity (mm²/s): | Not applicable |
| Particle Characteristics: | No information available | | |

9.2. Other Information
No data available

10) STABILITY AND REACTIVITY

- 10.1. Reactivity
Contact with incompatible substances can cause decomposition or other chemical reactions.
- 10.2. Chemical Stability
Stable under proper operation and storage conditions.
- 10.3. Conditions to Avoid
Incompatible materials, heat, flame, and spark.
- 10.4. Incompatible Materials
No information available.
- 10.5. Hazardous Decomposition Products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11) TOXICOLOGICAL INFORMATION

- 11.1. Acute Toxicity
No information available
- 11.2. Skin Corrosion/Irritation
No data available
- 11.3. Serious Eye Damage/Irritation
No data available
- 11.4. Respiratory or Skin Sensitization
No data available
- 11.5. Germ Cell Mutagenicity
No data available
- 11.6. Carcinogenicity

| ID | CAS No. | Component | IARC | NTP |
|-----------|----------------|-------------------------------------|-------------|------------|
| 1 | 1332-40-7 | Copper chloride oxide, hydroxide | Not listed | Not listed |

- 11.7. Reproductive Toxicity/Teratogenicity
No data available
- 11.8. Single Target Organ Toxicity – Single Exposure
No data available
- 11.9. Single Target Organ Toxicity – Repeated Exposure
No data available
- 11.10. Aspiration Hazard
No data available

12) ECOLOGICAL INFORMATION

- 12.1. Acute Aquatic Toxicity
- | Component | CAS No. | Fish | Crustaceans | Algae |
|-----------------------------------|----------------|------------------------------|-----------------------------|-----------------------------|
| Copper Chloride oxide, hydrate | 1332-40-7 | LC ₅₀ : 1.36 MG/L | No information available | No information available |
- 12.2. Chronic Aquatic Toxicity
No information available.
- 12.3. Persistence and Degradability
No data available.
- 12.4. Bio-accumulative Potential
No data available.
- 12.5. Results of PBT and vPvB assessment
Copper chloride oxide, hydrate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.
- 12.6. Other Adverse Effects
No data available

13) DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Chemicals | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. |
| Contaminated packaging | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |

14) TRANSPORT INFORMATION

Transporting Label



Marine pollutant Yes
UN Number 3077
UN Proper Shipping Name Environmentally Hazardous Substance
Transport Hazard Class 9
Transport Subsidiary Hazard Class None

15) REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture
No data available.

15.2. International Chemical Inventory

| Component | EINECS | TSCA | DSL | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|--------------------------------|--------|------|-----|-----|-------|-------|-------|------|------|------|
| Copper chloride oxide, hydrate | X | X | X | X | ✓ | ✓ | ✓ | ✓ | ✓ | X |

16) OTHER INFORMATION

16.1. Further Information

The information conveyed in this Safety Data Sheet is only a representation of what SAM HPRP Chemicals, Inc. and doing business as SAM Nutrition has found to be accurate based on the current information that is available in regard to this compound. SAM Nutrition makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will SAM Nutrition assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if SAM Nutrition has been advised of the possibility of such damages.